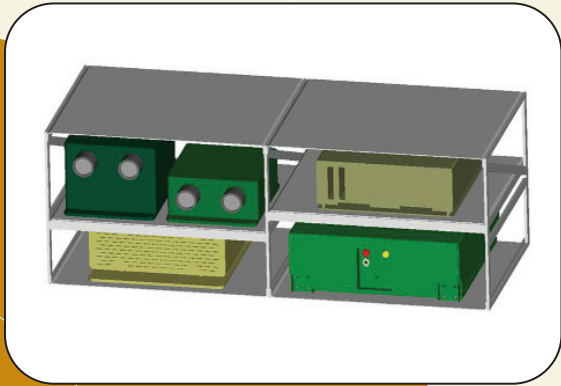


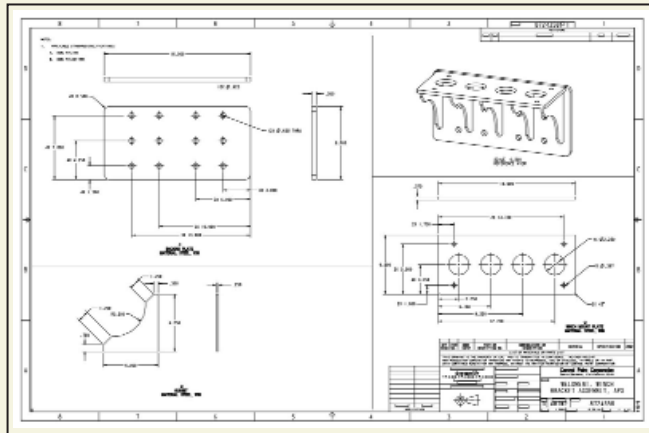
# Mechanical Engineering

## Electronics Packaging

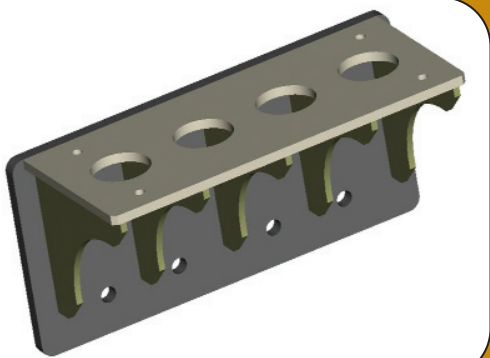


CPC's mechanical engineers specialize in the design of complex electro-mechanical hardware systems targeted for environments ranging from ground-based military vehicles to commercial space-flight hardware. Our engineers have extensive experience carrying designs from concept to production.

## Production Drawing Creation

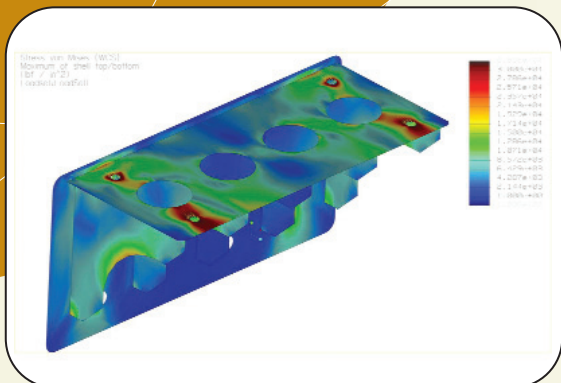


## Structures and Mechanical Design



## Mechanical Design

## Thermal and Structural Analysis



### Electronic Packaging

- PWB layout design
- Electronics module packaging and enclosure design
- Cable routing and connector definition

### Structures & Mechanisms

- Balanced optimization (manufacturability, weight, strength, thermal properties, etc.)
- Working experience with materials ranging from standard and exotic metals, to polymers, carbon fiber composites, sandwich panels and other advanced materials

### Production Documentation

- ANSI Y14.5.1 compliant drafting
- Our 3D CAD model files are created to be CNC manufacturing ready

### Rapid Prototype

- Stereolith or aluminum models can be quickly created to accelerate product development cycle